

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number  
**WO 2004/005806 A1**

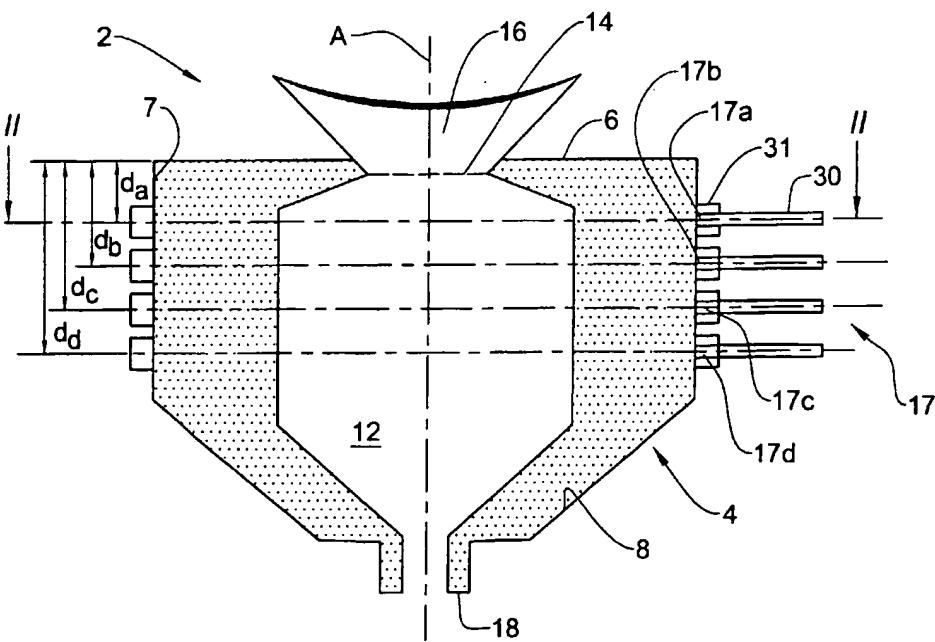
- (51) International Patent Classification<sup>7</sup>: **F24J 2/07** (74) Agent: REINHOLD COHN AND PARTNERS; P.O.Box 4060, 61040 Tel Aviv (IL).
- (21) International Application Number: PCT/IL2003/000550 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 2 July 2003 (02.07.2003) (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (25) Filing Language: English (30) Priority Data: English (71) Applicant (*for all designated States except US*): YEDA RESEARCH AND DEVELOPMENT CO. LTD. [IL/IL]; Weizmann Institute of Science, P.O.Box 95, 76100 Rehovot (IL).
- (72) Inventors; and (75) Inventors/Applicants (*for US only*): KARNI, Jacob [IL/IL]; 19/8 Eisenberg Street, 76290 Rehovot (IL). BERTOCCHI, Rudi [IL/IL]; 48 Medinat Hayehudim Street, 46766 Herzliya (IL).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SOLAR RECEIVER WITH A PLURALITY OF WORKING FLUID INLETS



WO 2004/005806 A1

(57) Abstract: A solar receiver (2) comprises a housing (4) defining a receiver chamber (12) and an aperture (14); a window (16) mounted in the aperture (14); at least two inlet means (17) axially spaced from the window (16) and positioned at different distances therefrom for the injection into the receiver chamber (12) of different flows of working fluid; an outlet means (18) for the ejection of the working fluid out of the receiver chamber (12); and absorption control means for the provision of the different flows of the working fluid with different capability to absorb solar radiation